

Abstract

The invention refers to a method for calibrating a camera-laser-unit (1) with respect to at least one calibration-object (12) disposed at a given position and orientation in a three-dimensional space (13). The camera-laser-unit (1) comprises a laser (4) and a camera (3), wherein the laser (4) and the camera (3) are disposed at a given distance with respect to each other. An optical axis (9) of the laser (4) and an optical axis (8) of the camera (3) subtend a given angle (α). The camera-laser-unit (1) is adapted to record the location, form and/or dimensions of a measurement-object (5). The method has the advantage that the same calibration-object (12) can be used for the calibration of the camera (3) and of the laser (4), wherein the camera (3) is first calibrated using a Tsai-algorithm and then the laser (4) is calibrated with respect to, and by making use of, the already calibrated camera (3).